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The Essay on
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James Whithead

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The
Inaugural Dissertation
on Pneumonia Vera
Submitted to the examination of

The Faculty & Medical Faculty of
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on
April 1810
by James Whithead.

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Pneumonia.

In making choice of a fit subject for an essay, it was my intention to have confined my remarks, altogether to that division of pneumonic affections described by authors under the denomination of Phthisy, but after consulting some of the most ingenious writers, whose descriptive & discriminating power, approximate perfection & whose greatest imperfection consists in hitherto endeavouring to discriminate when discrimination is impracticable, I have been induced to abandon my previous discrimination of inveterate & sumnusary, for from the sameness of the symptoms, which are dictated by forming the general characteristic marks of distinction between the different parts of the disease, I found it impossible to draw a line of separation, nor do I believe it to be easy, in the imagination of those who have so ardently laboured in vain to point it out. In support of this opinion I have the authority of Sydenham, for in speaking of Phthisy & Pneumony he makes the following observation, "that they differ only in degree & in respect of the great violence & largeness of the same cause." I might call to my aid the additional authority of Cullen, Brown, Barrow, Wilson &c; but as this distinction is not contended

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For at the more enlightened periods, I shall be liable to refer to a case cited by Cleghorn to prove the breach of symmetry in pointing out the seat of disease, the informer us that he lost a patient labouring under all the symptoms of pleurisy, but on dissection he found both the pleurae shrivelled in a sound state, the diaphragm very inflamed & an abscess in the liver which had opened into the cavity of the abdomen, producing sphaerulites of the emphysemous party, inflammation & suppuration of the smalls intertubular.

In order to be more methodical & in compliance with the usual form of every treating this disease, it may not be unproper before I enter more minutely on Pneumonia to speak of which I propose confirming my observations, to point out the different subdiseases which have arrest the attention of authors. When the inflammatory action is seated in the lungs, they have given it the appellation of Pneumonia, which is characterized by a dull & obtuse pain, difficulty of breathing, & dry expectoration &c.

When in the Pleura, the pain is more acute, attended with little or no expectoration & should delirium supervene it is Paroxysmality. An hyperaesthesia of the heart, pericardium & mediastinum often overlooked. Each has distinct many & other peculiar symptoms.

Dissection, which is certainly the only true way of which we can arrive at the seat of disease, by no

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may contravene this imaginary diagnosis, & the
be reluctantly relinquish them, as unattainable, from
a belief, that even if possible to ascertain from symptoms,
the primary part affected, we should not in the smallest
degree be benefited by the acquisition.

Experience teachy they are the result of the same
Cause & their curv effects by the same remedies.

Of Pneumonia &c.

In the consideration of every disease, it becomes the
duty of the author in the first place to investigate
its nature, that is, whether it be an idiopathic or Sym-
ptomatic affection. I suppose, both which of course
respectable authority might be adduced relative to
the disease, ~~of~~ before us, but as it is not uncommon
for primary Cause to be lost in the magnitude
of their effects, I think myself at least excusable in
hazarding the opinion of my belonging to the latter
division, when it does not proceed from mechanical
injury, as contumely, wounds &c. & when I contemnplate
the Cause which produces this affection & the symptoms
which precede the diagnostic marks of pneumonia.

I am much more confident in the opinion of my being
the effect of a diseased system with local determina-
tion, but to prove this incertitude fully the correctness of
this opinion, it will only be necessary to pay attention
to the primary symptoms of the disease.

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Dr Brown remarks, & always in proportion to the state
of stay at place as of a remote visiting cause, by in-
ducing debility in the pulmonary organs, from the im-
mediate connection which exists between them & the ex-
hal air. & I think the conjecture set on improbable
one, as experience teaches that the lungs are much less
affected by the rarity & dryness of the air, than by
the temperature. For unless it is admitted that
a greater degree of debility or predisposition to the
obnoxious action may be present in the lungs, than
exists in other parts of the system, that the predis-
position may be produced by causes which do not af-
fect the general system in an equal degree, I cannot
suppose it difficult to conceive why long stand & speak-
ing, singing, playing on wind instruments, or any in-
ordinate exercise of the lungs, which are justly con-
sidered by authors among its causes, but if as I be-
lieve to be the fact, that the lungs that may be more
prone predisposed to decay, than any other part of the
system, from the effect of the causes already enumerated,
the difficulty vanishes at once. For an exciting cause
& only wanting to act on this predisposition of the sys-
tem to take on decay, which will always be in
proportion to the quantum of predisposition & force
of exciting cause. & the former exciting in a greater de-
gree in the lungs, than in any other part, is plain of

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course that the excitement thus will be greater & which
we give actually to be the case. Another cause of pneumonia
is given by another physician which are in most
instances found to exist between the lungs & pleura & which
he supposes to be formed in early life from particu-
lar irritation of the body. I have not adducing by
the foundation ^{for the pneumonia} to the disease which he has
mainly to exist often after the first attack. In proof of
the correctness of his opinion as a fact, he informs us
he has cured one man in this City 24 or 25 times of
pneumy. Other causes are said to produce the disease
as a fine eating & drinking &c; but this I presume is
most in fancy set as a fitting cause. I am not
wishes to be under trouble by conveying an idea that a
predisposition in the lungs is alone sufficient for the
formation of the disease. My idea is that there is more
of disposition in the whole system to take on morbid action
which being produced & durability being greatest in the lungs
we can expect that the same cause which produced
excitement in the general system in proportion to the
quantum of predisposition will produce a greater
degree of excitement in the lungs where the pre-
disposition is greater, in which opinion I think I
am supported by the symptom, which precedes &
which characterise the first time of the disease,
which shall next proceed to examine.

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The symptoms which precede what is strictly called Pneumonia vera, are a sense of heat, palpitation, dry perspiration & a weak frequent pulse attended with cold shivering alternating with flushed heat, they finally leave & give way to symptoms accompanied with heat, thirst, anxiety, & all the symptoms which characterise the common inflammatory & synchitis state of fever, which continuing for many long seven days perhaps before we discover the diagnostic marks of pneumonia which are pain, difficulty of breathing, cough & a strong, hard & quick pulse. Then are the more uniform symptoms, those which are said more directly point to the throat of the disease, are so variable, that I shall endeavour to speak more minutely of them, as it is from an intimate acquaintance with them that we are alone able to form a judgment of the probable state of the disease.

The pain I presume is occasioned by the commencing inflammation & probably in some degree by the adhesion which takes place between the cells of the lungs or between the membranes attached to them & pleura. It follows of course that the extension of the former & the pressure with that of the latter

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most makes in the latter can have no other
feast than to produce pain, as the sensibility of
the party are much increased by the pain suffer-
ing a respect kind of degree; & is increased at each
inspiration, it is increased or rendered more
tolerable by different position of the body. Lying
on the back will sometimes afford ease, which
the patient cannot rest on either side, nor is it
uncommon to see the unhappy sufferer com-
pelled to abandon a horizontal & seek relief
in an erect position or posture. The next after
pain is not confined to any particular
part, though most frequently in over the
other side, I often shift from party to party
of the thorax. Sometimes standing as high up as
the clavicle & scapula & as low down as the
kidneys — the fact of the pain's shifting its
seat affords grounds to very good evidence ^{of} ~~indeed~~ ^{of} to
this a secondary affection. The difficulty of
breathing depending much on the same cause
which induces pain, when the latter is ~~is~~ ^{to} be
may always certainly expect to find the former
in a greater or less degree & so much are they
influenced by similar circumstances that
to day, either thorax is to point out the
principal variation of the other —

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The Cough which is one of the most disagreeable, & is
a painful occurrence in Pneumonia affecting from
its tendency in most instances to increase the pain
& inflammation, is caused by an effused or extravasated
fluid either into the trachea or its ramifications
which acts as an irritant on those parts rendered
more especially sensible by inflammation. It is
mostly dry in the commencement of the disease,
afterwards becoming humid & attended with a
spiring & protrusion of mucus. Sometimes resem-
bling spay, streaked with blood & colored with
a brown or black matter, it differs however
much as to quantity, consistency & color in
the different stages of the disease.

There is no circumstance connected with this
disease which merits in so specimens a degree
of attention of the Physician as the pulse; in
practice it must be our pilot by which we
must be directed: for without a knowledge
of it we can neither practice correctly or
successfully in this or any other form of disease.
It is in most instances strong, hard, quick & frequent
it is not alike in all cases, moreover it is subject,
like other symptoms subject to variation —
we occasionally find it intermitting, irregular &
disordered; this should be noticed particularly

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as the practice is to be influenced by it. The pulse even varies in different armies in the same part of the world. Dr. Chisholm observes he finds it most frequent in the left side, hence the property of forming a judgment of the case, to feel the purgating in both armies. No certain standard can be given to the temperature of the body. It is in proportion to the height of the Pyramids & the quantity of perspiration. Dr Chisholm informs us that in general he finds the heat natural & in a few days, but in by far the greater number much augmented even as high as from 102 to 104 of Fahrenheit. In most cases there is either a tertian or a diarrhoea of the bowels. The skin is hot & dry, face & eyes, clay color, Tongue dry, white & rough & sometimes dark. All these symptoms vary according to the different constitutions & according to the grade of the disease.

I shall now point out a few of those appearance, upon which have been predicted as favorable or unfavorable signs of the disease. A dry Cough attended with much pain, difficulty of breathing, flushing of the face, a red & burning eye are considered unfavorable but when there is no pain or Cough, we have much more danger to apprehend; for it is in the highest grade of morbid action.

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When the disease has arrived at a dangerous period there is frequently an interval of repose, while the difficulty of breathing still continues, which is far from being what many have supposed favorable symptom, is too often the precursor of death. I shew that the relatability of changed, that the return of consciousness into a consciousness of the infirm party is that that of a physician which Dr. Cullen considers as a termination peculiar to the lungs is about to take place & separation & immediate death are the consequences. Separation follows the alarming & troublesome symptom similar to this is mentioned by Clapham, as likely to occur about the third day & returning again on the fourth or fifth with increased violence in such case the termination is for the most part fatal. This injurious symptom deserves peculiar attention, the circumstances should never be forgotten. It would if not noticed, give the physician a favorable, the false opinion of the patient's case & he would be apt to be negligent, when he stands in these most needful medicals aid. Dr. Clapham highly approves that he was frequently deceived by these means, in suspending judgment & to the great disadvantage of his patients. The translation of pain has been considered by some a dangerous

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Only others as a favorable symptoms, it is presumed
depends altogether on the part to which it is translated.
If from a vital to a part less important to life, I
should always consider it as favorable. W. G. says
always favorable when the pain is translated from
the throat to the arm; bilious vomiting, as by
our author generally terminating the disease when
they occur. Sydenham & Cleyhorn have both
left testimony in favor of the salutary tendency
of expectorating inflammation in removing the
disease. Should the pulse be slow, intermitting
or natural, Cleyhorn informs us he is the
greater danger to fear. This observation is con-
firmed by preposterous Rush. Thrush & expector-
&oration without much straining or cough
is always favorable, should it be attended with
bloody sputum not be alarmed, it is in this
stage a good sign. A copious discharge of urine
which after standing a short time, becomes
turbid & deposit a thick sediment indicate
a happy termination. So much confidence does
Cleyhorn place in this circumstance, that he says
he has known it alone cause a favorable crisis of
the disease. When the patient is able to sleep
profoundly in a natural or horizontal posture

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without starting or manifesting any symptom of disturbance, when he can make a full inspiration without much difficulty a pain, conjoined with some of the salutary symptom already mentioned are may with propriety inform him that the storm is over, & that with prudent care he may calculate on being soon restored to the army of Health & security.

Pneumonia Veras which differ from inflammation in no other part, except in seat & degree, may terminate in resolution, suppuration & gangrene. It may end by effusion of which I have before spoken, by ulceration of the bronchial & trachea, pulmonary & diphys of the pericardium. The termination by resolution is the only one which holds fast hope of complete restoration to health. It is indicated by the most of the symptoms which have been enumerated as salutary such as the few expectoration of thick, white a yellowish matter tinged with blood, a copious discharge of urine which deposit a turbid sediment & general spontaneous sweat. Should not these favorable symptoms then thirteenth before the seventh day we have reason to fear suppuration, which may however be protracted to a much later period. Dr Cullen remarks to the 1st. Person is informed by Dr. Wilson that

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resolution may take place after the disease has con-
tinued for from a few weeks. But at any period
of the disease, should the patient be affected with
partial cold & shivering, should his pulse become
more or less frequent, pulse & soft, we may conclude
that the suppurative process has already commenced.
Added to the above symptoms, should there be an
intermittent dry cough should this continue with
difficult breathing while the pain becomes less,
should this be considerably with night sweats
& at irregular intervals, should the lips & cheeks
become of a circumcised red appearance
attended with a pallid countenance, emaciation
& great debility of the body, we can have little
doubt but that the suppuration has progressed
& that an abscess is formed. The tendency to grow-
ing, which is the most fatal but by far the most
rare termination, may be known from
the great violence of the disease existing all time-
s. when it supervenes there is a partial or total
ceasing of pain, difficulty of breathing, the
pulse becoming weak, frequent & intermitting, the
cheeks become of a red livid hue, the breath
stert, the matter expectorated is purulent &
ichorous, appearance a dim eye & directed
countenance are the harbingers of approach-
ing death.

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It would be proper in this place to give some ac-
count of the appearance on disease; but as I have
nothing to say from my own observation, I may de-
fer the book, where they are to be found much
more correctly described. Nor I could give them
I shall therefore pass them over to proceed to the
method of treatment of Pneumoniae -

The remedy by which this disease has been sub-
jected to the dominion of medicine, has by all
Physicians been divided into general & local.

Under the first head is to be considered that potent
& very terrible remedy Bloodletting, a practice of
which in the treatment of this disease, the Notary
of Medicine would be but too frequently summoned
to the bed of affliction, only to witness the impa-
tient of other Sciences. It may justly be styled
the anchor of hope in the treatment of the by-
car before us - Much has been said of the quan-
tity of blood it is proper to take from a patient
laboring under Pneumonia. When we consider
the variety of Constitution that may be adapted
by it to the different states of the disease which
may appear in each Constitution, even in the
same at different times, it will readily be

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perceived, that it is impracticable to specify the quantity which any one attack of the disease may demand. We are informed by Dr. Sydenham that he seldom knew a true pleurisy cured without the loss of 40 Oz. of blood. Chiggin has left on record invaluable testimony in favor of copious bleeding. He remarks, the pleurisy was incurable by bleeding only when drawn with a timid hand & in too small quantity. The seedy were not with a ease to violent, but those under controul, after he disengaged himself from the tramony which the ignorance & prejudice of his predeceoz, had thrown about him & adopted a practice at once bold & salutary - for he often derived the greatest advantage from drawing upwards of 350 of blood in the course of 44 hours, even this quantity ^{when} not unfrequently found too small. There can be no rule given, the physician's judgment must be altogether influenced by the constitution of the patient, age, climate, his position, the nature of the prevailing Epidemic, labor also the grade of the disease. If a physician forms his judgment by these criteria, tarry regularly his practice accordingly, reputation succeeds with reward.

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The most effectual direction that can be given, is, to bleed until the pain & difficulty of breathing are relieved, the arterial action reduced, until syncope is about to commence. We are advised to the advise mortality attention, that if our patients are apt to faint to bleed them in a horizontal position or to have the head inclined lower than the body: for it will in most prevent syncope. The reason of this precaution (says Dr. Rutherford) is evident, viz. that while the motion of the heart is suspended during fainting, the blood stagnates in the right side of the heart & is afterward thrown with great impetuosity against the lungs. Fainting from the first bleeding should not prevent a repetition of it, if necessary, or as may with confidence appear to the patient that it will not again occur. Both Dr. Cullen & Prichard Rush bear testimony of the truth of the remarks.

Having determined on the propriety of bleeding, as subject of enquiry among physicians has any in, i.e. from what part should it be taken, relative to such enquiry a dispute little and less said, as it is a circling cause of much consideration. I believe it puts the patient to no

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in commissari. I should draw it most proper
to follow the direction of those who directed it
to be taken from the arm of the affected side;
from the circumstance of the pulse varying in
some frequency on the different arms, sometimes
there may be good foundation for this pro-
prietie. The blood drawn from different arms
has exhibited different appearance of dig-
ests. In a known case of this fact I am in-
debted to Prof. Fish Rush. Bleeding has been
applied to after the digest has visited four
or five days. Although most effectual in the
early part of the digest, yet it is proper
should be employed at any stage, provided
the symptom indicates it. It has been
commended upon the ground of its thwarting
the operation of nature in carrying off
the digest by excretion, sweating &c;
These operations are neither supported by
experience or theory. Dr Cullen remarks so
far from checking excretion he has known
it increased by bleeding. Clifton informs
us a patient in had a pain in his right
side for which he had been bled, who
was cured by epistaxis from the right nostril

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The discharge of blood though in considerable
brought on a profuse sweat & thirty effected a
cure. When we use blood letting, or certain state
of the System, & our best draphtorite expectorant
no any Sydenham unacquainted with this fact
who is making the orifice of a vein perform the
function of a windpipe. The fear of enduring
disease must be too strong to the fear of the
loss of a limb; as Chyhorn himself has said that those who lost
a large quantity of blood never lost their health
so strong as very soon, while on the contrary those
that are more sparingly bled continued in
a languid torpid state for many months
without being able to get rid of the pain &
cough. The second remedy is Purging. We need
not expect any very great advantage from them in
this Complaint. After the violence of the symp-
toms have been reduced by bleeding & they
have found advantage to exhibit Cathar-
tic medicines. This was the practice of Syden-
ham, Chyhorn & others. The two latter num-
bered Mineral purges. The bowels in
also easy & may be kept open, as well
as purges, taking a glisty shield by no means
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Chronic Malaria also always impairs & softens the skin, so that in such a case, as only to visit persons, given with this intention they act as important reminders, by promoting perspiration & detempering the skin. For this purpose the different preparations of antimony have generally been founds.

The practice of Sweating in this disease, has had still retaining the confidence of many physicians, but it should be had recourse to with great caution: for it is always a dangerous & improper remedy while the inflammatory action continues. If it occurs spontaneously it should be promoted by moderately warm drinking as barley water, flax seed tea, sage & fotheringay &c. After the inflammatory action is removed by the sweating already mentioned should a cough remain attended with general debility, which is not unfrequently the case, it will be proper to give Stimulating Medicines as opium, Bals. Alth. &c. The Mafura Macilaginosa as prepared in the Hospital is perhaps one of the best remedies for the cough, Macilaginosa daily preparing have the same happy effect. Should be advised —

